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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 7745 (1975): Dimensions for lubrication holes, grooves and bore relief [PGD 19: Lubricating Equipments]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”





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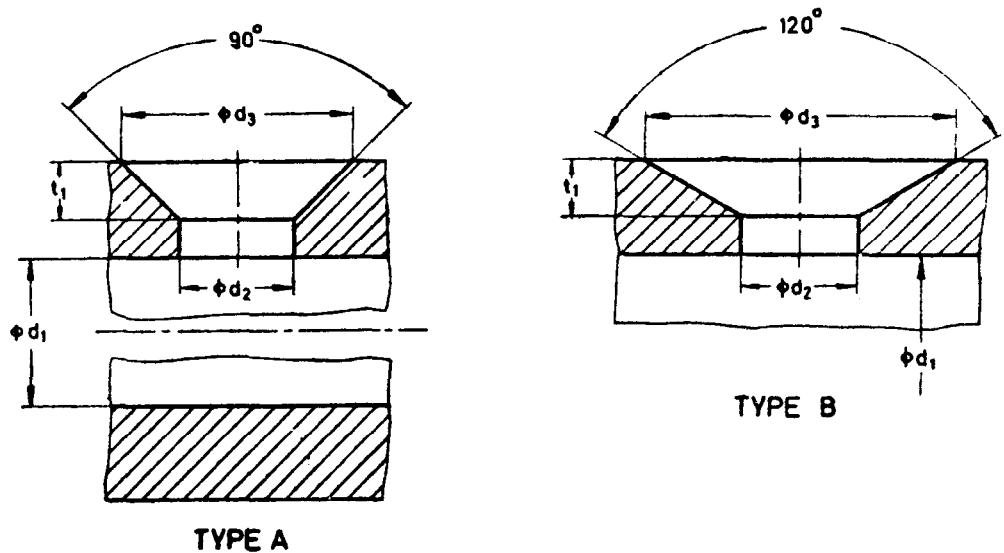
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*Indian Standard*  
**DIMENSIONS FOR  
LUBRICATION HOLES, GROOVES AND  
BORE RELIEFS**

**1. Scope** — Covers the types and dimensions of lubrication holes, grooves and bore reliefs used for lubrication.

**2. Lubrication Holes**

**2.1 Types and Dimensions**



All dimensions in millimetres.

$d_1$	$d_2$	$t_1$	$d_3$	
			Type A	Type B
Over 14	to 25	2.5	4.5	6
25	.. 36	3	6	8.2
.. 36	.. 56	4	8	10.8
.. 56	.. 70	5	10	13.6
.. 70	.. 100	6	12	16.2
.. 100	.. 160	8	16	21.8
.. 160	.. 200	10	20	27.2
.. 200	.. 250	12	24	32.6

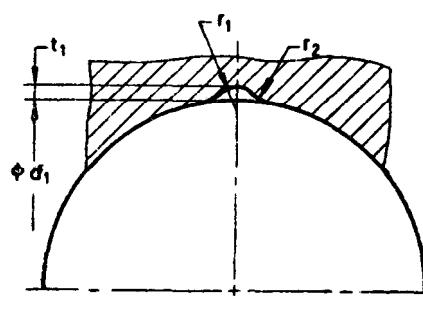
**2.2 Tolerance** — Medium class according to IS : 2102-1969 'Allowable deviations for dimensions without specified tolerances (first revision)'.

**2.3 Designation** — Lubrication hole of Type B having  $d_2 = 3$  mm shall be designated as:

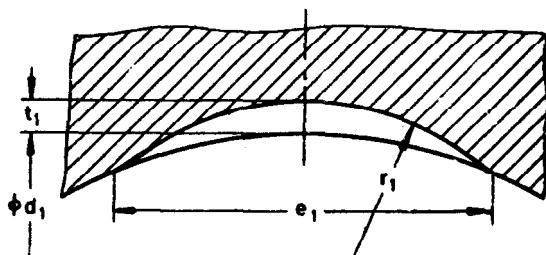
Lubrication Hole B 3 IS : 7745

### 3. Lubrication Grooves

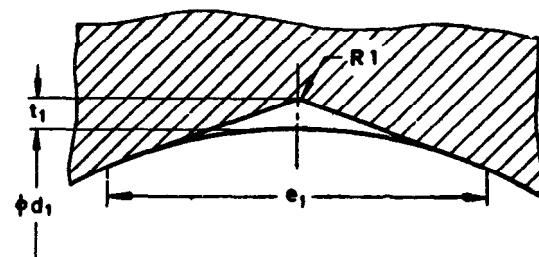
#### 3.1 Types and Dimensions



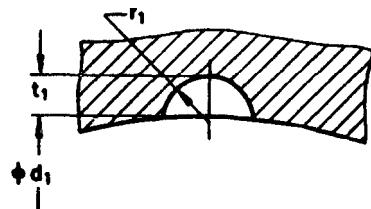
TYPE C



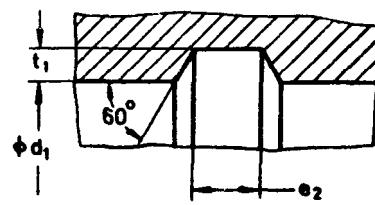
TYPE D



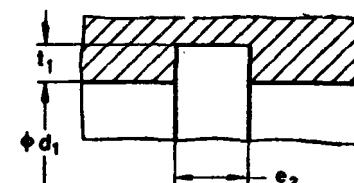
TYPE E



TYPE F



TYPE G



TYPE H

All dimensions in millimetres.

$d_1$	$t_1$	$e_1$	$e_2$	$r_1$		$r_2$
				Type C, F	Type D	
Over 14 to 25	0.8	5	1.8	1	2.5	3
25 "	1	8	2	1.5	4	4.5
36 "	1.2	10.5	2.5	2	6	6
" 56 "	1.6	14	3.5	3	8	9
" 70 "	2	19	4.5	4	12	12
" 100 "	2.5	28	7.5	5	20	15
" 160 "	3.2	38	11	7	28	21
" 200 "	4	49	14	9	35	27

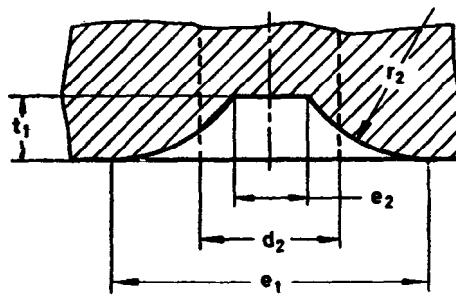
#### 3.2 Tolerance — Medium class according to IS : 2102-1969.

#### 3.3 Designation — Lubrication groove of Type D having $t_1 = 1.2$ mm shall be designated as:

Lubrication Groove D 1.2 IS : 7745

#### 4. Lubrication Bore Reliefs

##### 4.1 Type and Dimensions



TYPE K

All dimensions in millimetres.

$d_1$	$t_1$	$d_2$	$e_1$	$e_2$	$r_2$
70 to 100	1.6	6	8	1.8	6.5
Over 100 " 160	2.5	8	15	2.8	14
" 160 " 200	4	10	24	4.5	20
" 200 " 250	6	12	35	6.3	30

4.2 *Tolerances* — Medium class according to IS : 2102-1969.

4.3 *Designation* — Lubrication bore relief of Type K with  $t_1 = 2.5$  mm shall be designated as:

Lubrication Bore Relief K 2.5 IS : 7745

#### EXPLANATORY NOTE

This standard lays down the basis for selecting the dimensions of lubricating holes, grooves and bore reliefs according to a given size of bearing. The application would depend on the particular working conditions. Different types of holes and grooves have been specified, depending upon the type and material of the bearing.

This standard also indicates the method of designating lubricating holes, grooves and bore reliefs for showing on the drawings, etc.

Assistance has been derived from DIN 1591-1969 ' Lubrication holes, grooves and bore reliefs issued by Deutsches Institut fur Normung (DIN).'